

540.315
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/022926 A1

(51) International Patent Classification⁷: **F01D 17/16,**
F02C 6/12

DECHANET, Eric [FR/FR]; c/o Honeywell Garrett,
B.P.19 - Z.I. Route d'Oncourt, F-88150 Thaon-les-Vosges
(FR).

(21) International Application Number:
PCT/IB2002/003589

(74) Agents: **CHIVAROV, Georgi** et al.; TBK-Patent, Bavari-
aring 4-6, 80336 München (DE).

(22) International Filing Date:
5 September 2002 (05.09.2002)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (*for all designated States except US*): **HONEY-
WELL INTERNATIONAL INC.** [US/US]; 101 Colum-
bia Road, Morristown, NJ 07962 (US).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

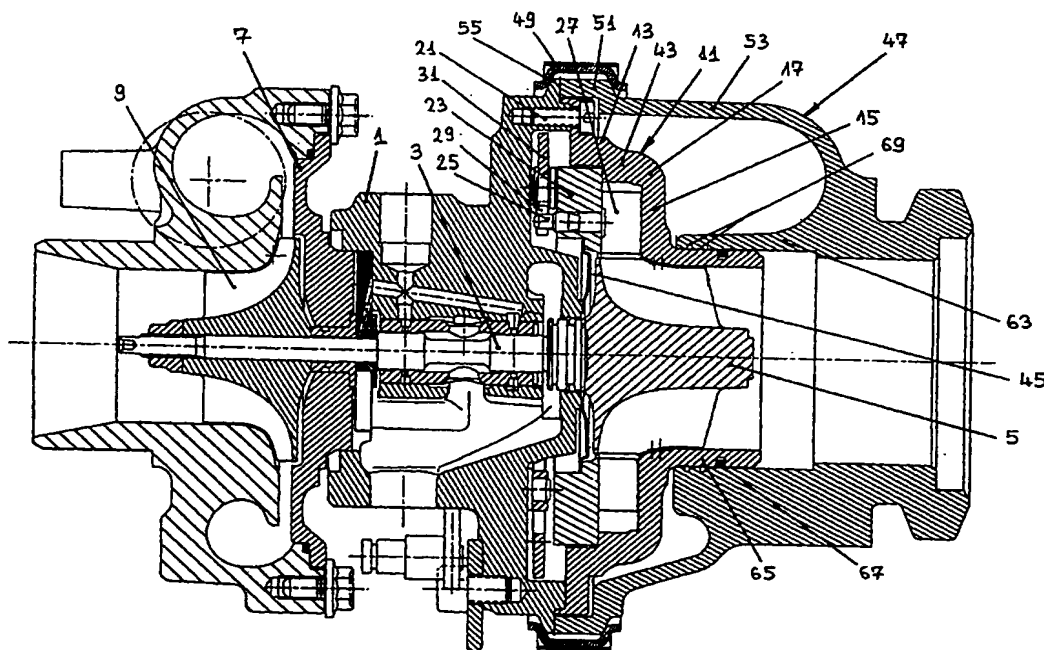
(75) Inventors/Applicants (*for US only*): **SAUSSE, Lorrain**
[FR/FR]; c/o Honeywell Garrett, B.P. 19 - Z.I. Route
d'Oncourt, F-88150 Thaon-les-Vosges (FR). **JECKEL,**
Denis [FR/FR]; c/o Honeywell Garrett, B.P.19 - Z.I. Route
d'Oncourt, F-88150 Thaon-les-Vosges (FR). **FIGURA,**
Georgio [FR/FR]; c/o Honeywell Garrett, B.P.19 -
Z.I. Route d'Oncourt, F-88150 Thaon-les-Vosges (FR).

Published:

— with international search report

[Continued on next page]

(54) Title: TURBOCHARGER COMPRISING A VARIABLE NOZZLE DEVICE



(57) Abstract: A turbocharger comprises a variable nozzle device and an exhaust housing being mechanically and/or thermally decoupled from the variable nozzle device. Additional optional advantageous features are provided, including various axial and radial clearances and various sealing elements.

WO 2004/022926 A1

WO 004/022926 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.